JC02 Rec'd PCT/PTO 17 JUN 2005

PTO-1390 (Rev. 2-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL LETTER TO THE UNITED STATES **DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER 5012.1013

U.S. APPLICATION NO. (If known see 37 C.F.R. 1.5)

To le assighed Q Q

INTERNATIONAL APPLICATION NO.

INTERNATIONAL FILING DATE

PRIORITY DATE CLAIMED

	- 1	PCT/EP2003/014459	18 December 2003	18 December 2002								
TITLE OF INVENTION ACTUATOR ARM FOR USE IN A SPACECRAFT												
APPLICANT(S) FOR DO/EO/US Charalampos KOSMAS												
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information of the United States Designated (Elected Office (DO/EO/US)) the following items and other information of the United States Designated (Elected Office (DO/EO/US)) the following items and other information of the United States Designated (Elected Office (DO/EO/US)) the following items and other information of the United States Designated (Elected Office (DO/EO/US)) the following items and other information of the United States Designated (Elected Office (DO/EO/US)) the following items and other information of the United States Designated (Elected Office (DO/EO/US)) the following items and other information of the United States Designated (Elected Office (DO/EO/US)) the following items and other information of the United States (Elected Office (DO/EO/US)) the following items and other information of the United States (Elected Office (DO/EO/US)) the following items and other information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US)) the Information of the United States (Elected Office (DO/EO/US))												
1.	\boxtimes	This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.										
2.		This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.										
3.		This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.										
4.	\boxtimes	The US has been elected (Article	e 31).									
5.	\boxtimes	A copy of the International Appli	cation as filed (35 U.S.C. 371(c)(2))									
		b. An has been communicate	uired only if not communicated by the Intered by the International Bureau. Application was filed in the United States R									
6.		An English language translation	of the International Application as filed (35	i U.S.C. 371(c)(2)).								
		a. is attached hereto.b. has been previously su	bmitted under 35 U.S.C. 154(d)(4).									
7.	\boxtimes	Amendments to the claims of the	e International Application under PCT Artic	le 19 (35 U.S.C. 371(c)(3))								
		b. have been communicat	quired only if not communicated by the Interest by the International Bureau. owever, the time limit for making such amond will not be made.	,								
8.		An English language translation	of the amendments to the claims under PC	CT Article 19 (35 U.S.C. 371(c)(3)).								
9.		An oath or declaration of the inve	entor(s) (35 U.S.C. 371(c)(4)).									
10.		An English language translation (35 U.S.C. 371(c)(5)).	of the annexes to the International Prelimi	nary Examination Report under PCT Article 36								
Item	ıs 11	to 20 below concern document	t(s) or information included:									
11.	\boxtimes	An Information Disclosure Stater	ment under 37 CFR 1.97 and 1.98.									
12.		An assignment document for rec	ording. A separate cover sheet in complia	ince with 37 CFR 3.28 and 3.31 is included.								
13.	\boxtimes	A preliminary amendment.										
14.	\boxtimes	An Application Datasheet under	37 CFR 1.76.									
15.		A substitute specification.										
16.		A power of attorney and/or change	ge of address letter.									
17.		A computer-readable form of the	sequence listing in accordance with PCT	Rule 13 <i>ter</i> .2 and 37 CFR 1.821 - 1.825.								
18.		A second copy of the published i	nternational application under 35 U.S.C. 1	54(d)(4).								
19.		A second copy of the English lan	iguage translation of the international appli	cation under 35 U.S.C. 154(d)(4).								
20.	\boxtimes	Other items or information: Letter re: Priority Unexecuted Declaration & PoA										

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Page 1 of 2

JC06 Rec'd PCT/PTO, 17 JUN 2005

PTO-1390 (Rev. 2-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, go persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICAT	To be a	known s	Part De C	internat		APPLICATION 03/014459				NEY'S DOCKET NO. 5012.1013
			ve been subm					CAI	CULATIONS	PTO USE ONLY
21. 🛛	Basic nati	ional fee			•••••	\$300		\$ 3	00	
22.	Examinati	ion fee								
If International provisions All other situati	of PCT Art	ticle 333	Ty	\$ 200						
23.	Search fe									
Search fee (37 USPTO as International Se	an Interna earch Rep	ational S ort prep	earching Authories ared and provi	d on the international orityided to the Office		\$100 \$400	·	\$ 4	00	
<u> </u>			21, 22 and 23					\$ 9	00	
sequence	listing or o	compute	er program listi	gs filed in paper over ng filed in an electron ets of paper or fraction	ic medit	um).	ng			
Total Sheets	Extra S		Number of ea		dditional 50 or fraction					
66 - 100 =	,	/50 =		x \$250 =						
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e))										
CLAIMS	S	NUM	BER FILED	NUMBER EXTRA		RATE				
Total Claims			8 - 20 =		×	\$50	=	\$		
Independent C			2 - 3=		×	\$200	=	\$		
MULTIPLE DE	PENDENT	CLAIM	(S) (if applicab		+	\$360	+	\$		
				TOTAL OF ABO	OVE CA	LCULATIO	NS =	\$ 9	00	
Applicant of by ½.	claims sma	all entity	status. See 3	7 C.F.R. 1.27. Fees	above a	re reduced	_	\$ 4	50	
by ½.	claims sma	all entity	status. See 3	7 C.F.R. 1.27. Fees	above a	re reduced	_ AL =	\$ 4: \$	50	
by ½.	of \$130.0	0 for fun	nishing the Eng	glish translation later		SUBTOTA			50	
by ½. Processing fee	of \$130.0	0 for fun	nishing the Eng	glish translation later (f)).	than 30	SUBTOTA	n +	\$		
by ½. Processing fee the earliest clai	of \$130.00 imed priori	0 for fun ty date (nishing the Eng (37 CFR 1.492) ssignment (37	glish translation later (f)).	than 30	SUBTOTATIONAL FI	n +	\$		
by ½. Processing fee the earliest clai	of \$130.00 imed priori	0 for fun ty date (nishing the Eng (37 CFR 1.492) ssignment (37	glish translation later (f)). TO CFR 1.21(h)). The a 7 CFR 3.28, 3.31). \$4	than 30 TAL NA ssignme 0.00 per	SUBTOTATIONAL FI	n + EE = +	\$ \$ \$ 4! \$	50	
by ½. Processing fee the earliest clai	of \$130.00 imed priori	0 for fun ty date (nishing the Eng (37 CFR 1.492) ssignment (37	glish translation later (f)). TO CFR 1.21(h)). The a 7 CFR 3.28, 3.31). \$4	than 30 TAL NA ssignme 0.00 per	SUBTOTA months from ATIONAL FI ent must be r property	n + EE = +	\$ \$ 45 \$ Amorefu	50 50 ount to be nded:	\$
by ½. Processing fee the earliest clai Fee for recordinaccompanied b	of \$130.00 imed priori ng the enc by an appro	0 for furity date (nishing the Eng (37 CFR 1.492) ssignment (37 cover sheet (37	glish translation later (f)). TC CFR 1.21(h)). The at 7 CFR 3.28, 3.31). \$4	TAL NA ssignme 0.00 per	SUBTOTA months from ATIONAL FI ent must be r property	n + EE = +	\$ \$ 45 \$ 45 \$ Amorefu	50 50 bunt to be	\$ \$
by ½. Processing fee the earliest clai Fee for recordinaccompanied b	of \$130.00 imed priori ng the enc by an appro	0 for furity date (nishing the Eng (37 CFR 1.492) ssignment (37 cover sheet (37	glish translation later (f)). TO CFR 1.21(h)). The a 7 CFR 3.28, 3.31). \$4	TAL NA ssignme 0.00 per	SUBTOTA months from ATIONAL FI ent must be r property	n + EE = +	\$ \$ 45 \$ 45 \$ Amorefu	50 50 bunt to be nded: bunt to be	
Processing fee the earliest clai Fee for recording accompanied became a. A check	of \$130.00 imed priorion of the encoy an approximation of the amount of the control of the contr	O for furnity date (nishing the Eng (37 CFR 1.492) essignment (37 cover sheet (37	glish translation later (f)). TC CFR 1.21(h)). The at 7 CFR 3.28, 3.31). \$4 TOTA the above fees is end in the amount	TAL NA ssignme 0.00 per AL FEE:	SUBTOTA months from ATIONAL FI ent must be r property S ENCLOSE	m + EE = + ED =	\$ 45 \$ 45 Amoreful Amorehan	50 bunt to be nded: bunt to be rged:	
by 1/2. Processing fee the earliest clai Fee for recordinaccompanied b a. A check b. Please A duplic c. The Con	of \$130.00 imed priori ng the enc by an approx c in the am charge my cate copy of	of for fundy date (signment (37 cover sheet (37 states) \$450 to cover it Account No. neet is enclose	glish translation later (f)). TC CFR 1.21(h)). The at 7 CFR 3.28, 3.31). \$4 TOTA the above fees is end in the amount	than 30 TAL NA ssignme 0.00 per AL FEE: closed.	SUBTOTA months from ATIONAL FI ent must be r property S ENCLOSE to cove s which may	+ EE = + ED =	\$ 44 \$ Amoreful Amorehan	50 50 bunt to be nded: bunt to be rged:	\$
by 1/2. Processing fee the earliest clai Fee for recording accompanied by the second accompani	of \$130.00 imed priorion on the encey an approximate control of the encey and approximate copy of the encey	of for fundy date (closed as opriate community of the series here.) The series here.	ssignment (37 cover sheet (37 the Account No. meet is enclose by authorized 552. A duplication a credit card.	glish translation later (f)). TC CFR 1.21(h)). The ar CFR 3.28, 3.31). \$4 TOTA the above fees is end in the amounted. to charge any addition	than 30 TAL NA ssignme 0.00 per AL FEE: closed. t of \$ onal fee: is enclosed. tion on	SUBTOTA months from ATIONAL FI ent must be r property S ENCLOSE to cove s which may seed. this form ma	+ + ED = Properties of the second sec	\$ \$ 4.5 \$ 4.5 \$ Amoreful Amorecham	50 50 50 50 50 50 50 50 50 50	\$ overpayment to
by 1/2. Processing fee the earliest clai Fee for recordinaccompanied b a. A check b. Please A duplic c. The Cordinactor Deposit d. Fees ar should NOTE: Where	of \$130.00 imed priori ing the enc by an appro c in the am charge my cate copy of mmissione t Account N re to be cha not be inc	of for fundy date (losed as opriate of this sheer is here No. 50-0 arged to cluded of priate till.	ssignment (37 cover sheet (37 state) \$450 to cover it Account No. neet is enclose eby authorized 552. A duplication this form.	glish translation later (f)). TC CFR 1.21(h)). The armound the above fees is end in the amound. to charge any additionate copy of this sheet WARNING: Informate Provide credit card in the armound and the copy of this sheet.	than 30 TAL NA ssignme 0.00 per AL FEE: closed. t of \$ onal fees is enclo ation on iformatic	subtotal months from ATIONAL File ent must be property SENCLOSE to cove s which may sed. this form may on and authors not been a	+ + ED = + + ED = + be reconstant of the angle becomes any becomes	\$ 4! \$ 4! Amoreful Am	50 bunt to be nded: bunt to be rged: fees. d, or credit any bublic. Credit of PTO-2038.	overpayment to
by 1/2. Processing fee the earliest clai Fee for recordinaccompanied b a. A check b. Please A duplic c. The Cordinactor Deposit d. Fees ar should NOTE: Where	of \$130.00 imed priorion on the am charge my cate copy of Account Note to be charge in an approper approper approper an approper approp	of for funity date (losed as opriate composition of this sheet is here to coluded of the column of	ssignment (37 sover sheet (37 sheet is enclose by authorized 552. A duplication this form.	glish translation later (f)). TC CFR 1.21(h)). The are CFR 3.28, 3.31). \$4 TOTA the above fees is end in the amounted. to charge any additionate copy of this sheet WARNING: Information provide credit card in	than 30 TAL NA ssignme 0.00 per AL FEE: closed. t of \$ onal fees is enclo ation on iformatic	subtotal months from ATIONAL File ent must be property SENCLOSE to cove s which may sed. this form may on and authors not been a	+ + ED = + + ED = + be reconstant of the angle becomes any becomes	\$ 4! \$ 4! Amoreful Am	50 bunt to be nded: bunt to be rged: fees. d, or credit any bublic. Credit of PTO-2038.	overpayment to
by ½. Processing fee the earliest clai Fee for recording accompanied by the seriest clai a. A check by Please A duplic c. The Compensitude of the seriest control of the seriest con	of \$130.00 imed priorion on the am charge my cate copy of mmissione and appropriate to be charge in the amappropriate and grant properties on & Kriston & Kr	of for funity date (losed as opriate of this short is here to solve the coluded of the column of the colum	ssignment (37 cover sheet is enclosed a credit card on this form.	glish translation later (f)). TCCFR 1.21(h)). The armound of the above fees is ending in the amound. To charge any additionate copy of this sheet WARNING: Informational provide credit card in the application to pending at the application to pending the copy of the application to pending the armound of	than 30 TAL NA ssignme 0.00 per AL FEE: closed. t of \$ onal fees is enclo ation on iformatic	subtotal months from must be reproperty SENCLOSE to cover swhich may used. this form may used. this form may use an and authors not been fuse.	+ + ED = + + ED = + be reconstant of the angle becomes any becomes	\$ 4! \$ 4! Amoreful Am	50 bunt to be nded: bunt to be rged: fees. d, or credit any bublic. Credit of PTO-2038.	overpayment to
by ½. Processing fee the earliest clai Fee for recording accompanied by the seriest clai a. A check by Please A duplic companied by the seriest claim accompanied by the seriest companied by the seriest companied by the seriest claim accompanied by the seriest c	of \$130.00 imed priorion on the am charge my cate copy of mmissione and appropriate to be charge and appropriate and grant propriate and grant pro	of for funity date (losed as opriate of this short is here to solve the coluded of the column of the colum	ssignment (37 cover sheet is enclosed a credit card on this form.	glish translation later (f)). TCCFR 1.21(h)). The are recorded to the above fees is end at the copy of this sheet warming and the copy of this sheet warming are 37 CFR 1.494 or 1 application to pendicular to pendicular to pendicular to charge any addition are recorded to the copy of this sheet warming are recorded to the copy of this sheet warming are recorded to the copy of this sheet are recorded to the copy of this sheet warming are recorded to the copy of this sheet are recorded to the copy of the co	than 30 TAL NA ssignme 0.00 per AL FEES closed. t of \$ onal fees is enclo ation on formatic 495 has ng stat	to cover so which may used. this form may use an and authors not been fuse.	+ + ED = + + ED = + be reconstant of the angle becomes any becomes	\$ 4! \$ 4! Amoreful Am	50 bunt to be nded: bunt to be rged: fees. d, or credit any bublic. Credit of PTO-2038.	overpayment to
by ½. Processing fee the earliest clai Fee for recording accompanied by the seriest clai a. A check by Please A duplic c. The Compensitude of the seriest control of the seriest con	of \$130.00 imed priorion on the ence by an appropriate copy of the copy of the ence	of for funity date (losed as opriate of this short is here to solve the coluded of the column of the colum	ssignment (37 cover sheet is enclosed a credit card on this form.	glish translation later (f)). TCCFR 1.21(h)). The az CFR 3.28, 3.31). \$4 TOTA the above fees is end in the amount of the copy of this sheet warm of the copy of this sheet are 37 CFR 1.494 or 1 application to pendicate to pendicate to pendicate copy of the card in the	than 30 TAL NA ssignme 0.00 per AL FEES closed. t of \$ onal fees is enclo ation on formatic 495 has ng stat	subtotal months from must be reproperty SENCLOSE to cover swhich may used. this form may used. this form may use an and authors not been fuse.	+ + ED = + + ED = + be reconstant of the angle becomes any becomes	\$ 4! \$ 4! Amoreful Am	50 bunt to be nded: bunt to be rged: fees. d, or credit any bublic. Credit of PTO-2038.	overpayment to
a. A check b. Please A duplic c. The Con Deposit d. Fees ar should NOTE: Where (b)) must be fil SEND ALL COR Davidson, Dav 485 Seventh A New York, NY	of \$130.00 imed priorion on the am appropriate copy of the charge my cate copy of the count for the count for the count for the count for the charge my cate copy of the count for the c	of for funity date (losed as opriate of this short is here to solve the coluded of the column of the colum	ssignment (37 cover sheet is enclosed a credit card on this form.	glish translation later (f)). TCCFR 1.21(h)). The armound the above fees is end in the amound. to charge any additionate copy of this sheet WARNING: Informate Provide credit card in the application to penditional to penditional to penditional to the series of the s	than 30 TAL NA ssignme 0.00 per AL FEE: closed. t of \$ onal fee: is enclo ation on informatic 495 has ing state GNATUR	to cover so which may used. this form may use an and authors not been fuse.	+ + ED = + + ED = + be reconstant of the angle becomes any becomes	\$ 4! \$ 4! Amoreful Am	50 bunt to be nded: bunt to be rged: fees. d, or credit any bublic. Credit of PTO-2038.	overpayment to

5012.1013

UNITED STATES PATENT & TRADEMARK OFFICE

Re:

Application of:

Charalampos KOSMAS

Serial No.:

To Be Assigned

Filed:

Herewith as national phase of International

Application No. PCT/EP2003/014459, filed 18 December

2003

For:

ACTUATOR ARM FOR USE IN A SPACECRAFT

Customer No:

23280

LETTER RE: PRIORITY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

June 16, 2005

Sir:

Applicant hereby claims priority of German Application Serial No. 102 59 638.7, filed 18 December 2002, through International Application No. PCT/EP2003/014459, filed 18 December 2003.

Respectfully submitted,

DAVIDSON, DAVIDSON & KAPPEL, LLC

Thomas P. Canty

Reg. No. 44,586

Davidson, Davidson & Kappel, LLC 485 Seventh Avenue, 14th Floor New York, New York 10018 (212) 736-1940

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number,

Certificate of Mailing By Express Mailing under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 in an envelope addressed to:

Mail Stop: PCT

Commissioner for Patents

P.O. Box 1450; Alexandria, VA 22313-1450

on June 17, 2005.

Date

Signature

Calvin Ashby III

Typed or printed name of person signing Certificate

EV 568 474 039 US

("Express Mail" Mailing Label Number)

Note: Each paper must have its own certificate of mailing by Express Mail, or this certificate must identify

each submitted paper.

Re.: Docket No.: 5012.1013

Applicant(s): Charalampos KOSMAS

Serial No.: To be assigned

Invention: ACTUATOR ARM FOR USE IN A SPACECRAFT

Filing Date: Herewith

- Transmittal Letter to the U.S. Designated/Elected Office Concerning a Filing Under 35 U.S.C. 371 (2 pages);

- Copy of Int. Patent Application PCT/EP2003/014459 (including 10 sheets of drawings) w/ Int. Search Report (58 + 3 pages);

- Preliminary Amendment (6 pages);

- Copy of unexecuted Declaration & Power of Attorney (1 page);

- Application Data Sheet (2 pages);

- Letter re: Priority (1 page);

- Information Disclosure Statement (2 pages) w/ PTO-1449 (2 pages) and Copies of Cited References;

- Check in the amount of \$ 450.00;

- Confirmation Postcard